Coli Surface Protein 17 (CS17) from Enterotoxigenic *Escherichia coli* (0.5 mg)

**Catalog No. NR-50693**
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**Contributor:**
National Institutes of Allergy and Infectious Diseases (NIAID), National Institutes of Health (NIH)

**Manufacturer:**
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**Product Description:**
NR-50693 is a preparation of coli surface protein 17 (CS17) purified from enterotoxigenic *Escherichia coli* (E. coli) (ETEC). CS17 is a virulence factor responsible for adhesion of bacterial cells to intestinal epithelial cells.

NR-50693 was obtained from *E. coli*, strain WS6788A, grown in colonization factor antigen (CFA) broth containing 0.15% bile salts in a fermenter. The protein was purified from the culture supernatant by ammonium sulfate precipitation. NR-50693 has an approximate molecular weight of 15 kilodaltons.

The ETEC infectious process is initiated by the organism adhering to the host intestinal epithelial cells via interactions between bacterial adhesions, colonization factors [including CFAs, coli surface (CS), and putative colonization factors (PCFs)] and host receptors. ETEC then causes secretory diarrhea by expressing heat-labile enterotoxin and heat-stable enterotoxin.

**Material Provided:**
Each vial of NR-50693 contains approximately 0.5 mg of CS17 in PBS, pH 7.4. The concentration, expressed as mg per mL, is shown on the Certificate of Analysis.

**Packaging/Storage:**
NR-50693 was packaged aseptically in cryovials. The product is provided frozen on dry ice and should be stored at -80°C ± 10°C immediately upon arrival. Freeze-thaw cycles should be avoided.

**Citation:**
Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Coli Surface Protein 17 (CS17) from Enterotoxigenic *Escherichia coli* (0.5 mg), NR-50693."

**Biosafety Level:** 1

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**References:**
3. Evans, D. G., D. J. Evans, Jr., and W. Tjoa. "Hemagglutination of Human Group A Erythrocytes by Enterotoxigenic *Escherichia coli* Isolated from Adults

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